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### [1. SB132-002: Real-time Characterization of Variable-rate Streaming Data](#)

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: Develop methods and tools for the characterization, underlying structure, trends, and events in streaming data sets in order to aid analysts in discovery and understanding. Methods and tools, applicable over a broad range of bandwidth of streaming data -- kbps up to beyond 100 gbps -- will leverage established principles of statistical analysis, visualization, and cognitive science. ...

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### [2. SB132-003: High Density Optical Interconnects](#)

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: Demonstrate low-loss, high density optical waveguides suitable for chip-scale integration with layout and pitch comparable to next generation global-level interconnects. Identify and demonstrate active components beyond the state-of-the-art by incorporating these waveguides. DESCRIPTION: The use of optics has revolutionized communications due to its extremely large bandwidth, very lo ...

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### [3. SB132-004: Exploiting Radio Propagation Reciprocity in Wireless Networks](#)

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: Develop the system components for utilizing the reciprocity characteristics of radio propagation to improve wireless network security and efficiency. DESCRIPTION: There is a critical military need for both increases in wireless system performance and spectral efficiency, and more distributed security techniques. In particular, the military is deploying wireless systems much more bro ...

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### [4. SB132-005: Novel schemes for highly reliable aerospace electromechanical primary actuation systems](#)

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: Define and demonstrate a novel design scheme for high-reliability, fault tolerant electromechanical actuation for critical aerospace applications. DESCRIPTION: Many emerging and future USAF and USN aircraft programs, including efforts related to Next Generation Air Dominance, drive to demanding actuator packaging requirements that today's electrohydrostatic or hydraulic actuators can ...

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**5. [ST13A-001: Functional Imaging to Develop Outstanding Service-Dogs \(FIDOS\)](#)**

Release Date: 01-25-2013 Open Date: 02-25-2013 Due Date: 03-27-2013 Close Date: 03-27-2013

OBJECTIVE: This effort will capitalize on first-of-its-kind neural imaging feasibility work; demonstrating functional brain activation in unrestrained dogs in response to handler cues. The objective of this effort is two-fold; first, to optimize the selection of ideal service dogs, both in operational military and therapy environments, and second, to use real-time neural feedback to optimize canine training, shortening training duration, reducing costs, and increasing learned responses.

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**6. [ST13A-002: High-bandwidth, Low-sensitivity Optomechanical MEMS Accelerometers](#)**

Release Date: 01-25-2013 Open Date: 02-25-2013 Due Date: 03-27-2013 Close Date: 03-27-2013

OBJECTIVE: Develop a chip-integrated optomechanical micro-electromechanical systems (MEMS) accelerometer with 100 ng/Hz<sup>1/2</sup> sensitivity and 10 kHz bandwidth using high finesse optics to readout and dynamically tune sensor parameters. DESCRIPTION: Inertial navigation systems (INS) are a critical asset to the DoD in environments where GPS is either denied or unavailable. At the heart of these systems are precision acceleration and rotation sensors. Recently, MEMS-based accelerometers have found widespread use in INS owing to their small size and ease of fabrication.

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**7. [ST13A-003: Development of Gravitational Radiation Technology for Military Applications](#)**

Release Date: 01-25-2013 Open Date: 02-25-2013 Due Date: 03-27-2013 Close Date: 03-27-2013

OBJECTIVE: Demonstrate key technologies to enable application of gravitational radiation theory and research to military communications and navigation. DESCRIPTION: There is a need for world-wide communications and navigation systems which do not need a sky-view link or line-of-sight and which are less vulnerable to threat activity. Satellite communication and navigation systems are vulnerable to interdiction and are expensive to maintain and operate. One, very high risk approach is the adaptation of gravitational radiation (GR) to communications.

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**8. [ST13A-004: A Flexible and Extensible Solution to Incorporating New RF Devices and Capabilities into EW/ ISR Networks](#)**

Release Date: 01-25-2013 Open Date: 02-25-2013 Due Date: 03-27-2013 Close Date: 03-27-2013

OBJECTIVE: Develop a representation with formal semantics for the static and dynamic characteristics of Radio Frequency (RF) devices. DESCRIPTION: In military applications, RF devices constitute a heterogeneous network of receivers/transmitters deployed primarily for the purpose of communicating tactical information. However, current RF devices are highly versatile and have the potential of fulfilling various functions in support of various tasks such as Situational Awareness, Electronic Warfare/Intelligence, Surveillance and Reconnaissance (EW/ISR).

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## **9. [ST13A-005: Modeling and Optimizing Turbines for Unsteady Flow](#)**

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: Develop an analytical software tool capable of modeling and optimizing turbine components for unsteady flow conditions. DESCRIPTION: Conventional gas turbine engines rely on Constant Pressure Combustion (CPC) to generate the enthalpy needed to provide the horsepower and thrust that our warfighters need. Unfortunately, CPC is a very inefficient process and approximately 30-40% of the energy contained in a unit of fuel is wasted.

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## **10. [ST13A-006: Novel Extensible Design Approaches for Advanced Aircraft Composite Structural Architectures](#)**

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: Define a low-level stochastically verified composite structural toolset geared towards expediting aircraft design and development, while at the same time leveraging building-block approach to structural verification for enhanced airframe assurance. DESCRIPTION: Advanced composite structures enable high performance aerospace structures, including extensive tailoring to particular applications, fastener elimination, weight reduction, improvements in fatigue resistance, and corrosion prevention.

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